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(71) Applicant: **LSI CORPORATION** [US/US]; 1320 Ridder Park Drive, San Jose, CA 95131 (US).

(72) Inventors: **ALISEYCHIK, Pavel, A.**; 37-37 Obrucheva Street, Moscow, 117342 (RU). **LETUNOVSKIY, Aleksey, A.**; 64 Roktova, 3k2, Moscow, 117593 (RU). **MAZURENKO, Ivan, L.**; 36A Molodyezhnaya Street, Apt. 51, Khimki, Moscow, 141407 (RU). **PETYUSHKO, Alexander, A.**; 21 Aviatsionnaya Street, Apt. 76, Bryansk, Moscow, 241037 (RU). **ZAYTSEV, Denis, V.**; 26B Ugreshskaya Street, Apt. 81, Dzerzhinsky, Moscow, 140093 (RU).

(74) Agent: **RYAN, Joseph, B.**; Ryan, Mason & Lewis, LLP, 48 South Service Road, Suite 100, Melville, NY 11747 (US).

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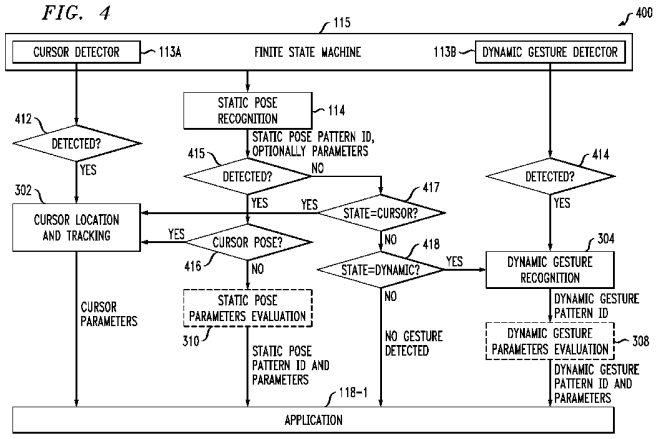
(54) Title: FINITE STATE MACHINE CURSOR AND DYNAMIC GESTURE DETECTOR RECOGNITION

FIG. 4



(57) Abstract: An image processing system comprises an image processor having image processing circuitry and an associated memory. The image processor is configured to implement a gesture recognition system. The gesture recognition system comprises a cursor detector, a dynamic gesture detector, a static pose recognition module, and a finite state machine configured to control selectively enabling of the cursor detector, the dynamic gesture detector and the static pose recognition module. By way of example, the finite state machine includes a cursor detected state in which cursor location and tracking are applied responsive to detection of a cursor in a current frame, a dynamic gesture detected state in which dynamic gesture recognition is applied responsive to detection of a dynamic gesture in the current frame, and a static pose recognition state in which static pose recognition is applied responsive to failure to detect a cursor or a dynamic gesture in the current frame.

WO 2015/060896 A1